| | y Approved for Release @ 50-Yr2013/04/30 : | |
|--|---|---|
| | CLASSIFICATION CONFIDENTIAL/SECURITY IN CENTRAL INTELLIGENCE AGENCY | FOR |
| | INFORMATION REPORT | |
| COUNTRY | Poland | DATE DISTR 9 9 neg 1959 |
| SUBJECT | Sternahowine Matellungies Works | DATE DISTR.2.2 Dec 1952 50X1 |
| SOBVECT | Starachowice Metallurgical Works | NO. OF PAGES 3 |
| PLACE ACQUIRED | | NO. OF ENCLS. 1 (LISTED BELOW) |
| DATE ACQUITED BY SOURCE | | SUPPLEMENT TO REPORT NO. 50X1 |
| DATE OF INFORMATION | | • |
| THE DOCUMENT CONTAINS INFORMATION AFFORMATION AFFORMAT | THIS IS UNATIONAL DEFENSE TO THE STATE OF STATE | INEVALUATED INFORMATION 50X1 |
| SOURCE | / | |
| | | |
| | | |
| | | |
| 1. The Starachov | vice /etallurgical Works, Kielce Wojew | • |
| 1ec. The ter (17 - 18 kild 14,000 - 16,0 cupation the personnel cur | The lant is 17 kilometers from Skarzy, rail is wooded and very hilly. The name srs) is the Warsaw - Krakow state 1000 employees worked in this plant in wirking force was maintained at about raily employed is unknown. Since the plant was predicated on the development | carest connection to Skarzyske nighway No 13. Up to 1939, three shifts. During the octube same level. The number of |
| to create a being about a rather sm/. | s a major problem. The Kamienna Rive cubic meters per day, is the only sou esservoir raising the water level 2½ ms - 1.5 meters, covering about 140 heet supply of water during a drought. In even though the drillers went to a | erce of water. A dam was built eters with the average depth ares. This reservoir provides |
| the ZEORK Zwi | an electric power plant with a capaci transmission lines of 15,000 volts ca lazek Elektrowni Okregu Radomskiego - of the Radom-Kielce Region). | more aumment from Maccine and |
| trans//or lation | el supply is concerned, the plants are delds in Jaslo. The pipeline diameter is pressure is about 20 - 25 atmosphere on is reduced to about 6 atmospheres. | is 30 centimeters and the |
| | ops and the ammunition finishing plan of alterations and expansion. The Ger The present condition of the plant is | man coompation inhihited it- |
| up > 100 kilo tr(als; automo Germin occupat on fillery g CLASS | to 1939 included Bofors 40 mm antiaires of ammunition, such as artillery, an grams; armored cupolas for fortification the main product was artillery ammun barrels. Besides this, thin walled FICATION CONFIDENTIAL/SECURITY INFORM | tiaircraft, and aerial bombs tions and tanks; caterpillar central heating. During the munition and the roughing work |
| State X Dany XC | BS X g DISTRIBUTION | |
| V | A second | |
| | | |

- 2 -

for submarine Diesel engines were made, and machine tools were repaired. At present, tractors and trailers are being produced officially. The specific nature of the production is unknown. The personnel is exceptionally well trained; it is quite possible that production could be purely military in nature.

- 7. Just before Werld Werl, in 1939, the plants had a Centralne Biuro Konstrukcyjne (Central Engineering Design Bureau) which employed about 200 engineers and model builders to Engineering Design Bureau) which employed about 200 engineers and model builders to Engineering Design Bureau) which employed about 200 engineers and model builders to Engineers of cannon and ammunition. The plants built all the cannon prototypes and also planned and prepared the production for other armament factories. Most of the engineers deserted during the German occupation. I met many of them in the Slask area in 1945.
- 8. Plant administration was excellent. The plant was organized as an integrated, independent unit in which raw material in the form of ore was processed at the plant into a high-quality, finished product.
- 9. The plant complex was divided into the following basic units:
 - (a) Iron ore mines
 - (b) Limestone quarries
 - (c) Metallurgical works including: blast furnace, electric power plant, two openhearth furnaces, three electric steel furnaces, steel foundry, iron foundry, relling mill, the forgery, hardening works, brick yard, colophony plant, structural steel division, and the repair division.
 - (d) Machining plants, with two artillery divisions, projectile plant, case manufacturing plant, automobile frame stamping mill, and a carpenter shop.
 - (e) Finishing plant for artillery and antiaircraft ammunition, and aerial bombs.
 - (f) Forest management and saw mills
 - (g) "Vidia" hard metals section
 - (h) Engineering design bureau
- 10. In the iron ore mines, the ore (limonite with up to 35 per cent iron) is mined by the open-pit method. After roasting, this ore can be used as an admixture constituting about 30 per cent of the charge. It is also used as an oxidizing agent in electric and open-hearth furnace steel production. Tests to run the blast furnaces on meadow ore alone did not give satisfactory results.
- 11. Limestone quarries, producing the flux for blast furnace steel production, use the open pit method in nearby woods.
- 12. The amount of ore and limestone extracted was large enough to fulfill the requirements of the plants.
- 13. Forestry management was very advanced and was applied over a 100 square kilometer tract of land which produced building lumber.
- 14. The large sawmill and veneer plant were geared to dressing lumber for the manufacture of railroad cars, carpentry, and ammunition packing cases.
- Production capacity for the blast furnace was about 24 tons of pig iron per day. The cres used before Walkerk, in 1939 were: Swedish, Algerian, Krivol Rog, and domestic limonite. The pig iron was allowed to cool because the plant site was crossed by the Warsaw, Skarzyske, Ostrowiec, Lvov railroad. A project for transferring this railroad line to the outskirts of Starachowice, beyond the plant site, was about to be realized. In connection with this, a plan had been worked out for transporting hot pig iron to the open-hearth furnaces.
- 16. The local 8,000 kilowatt electric power plant serviced only the needs of the plants and factory communities. The steam boilers, Babeack water piping system, had two turbogenerators fired with boal, coal dust, blast furnate ges, and natural gas.
- Near the blast furnace, a brick yard converted blast furnace slag into building brick; a solophony works produced turpentine and colophony from waste forest products. Untiliast year, ovens converted black coal into metallurgical (long flaming) coke and activated carbon for gas mask use. The blast furnace buildings are of masonry. The electric power plant is 40 x 30 meters and about 20 meters high. In 1939 this plant was lengthened by a 20 meter steel frame structure with slag brick walls to house two boilers. The tapping area is 20 x 30 meters and 1,500 meters high, with burnt brick walls and a light-weight roof of structural steel.
- The open-hearth furnaces, of 26-ton capacity per heat, produce threstofour heats per day.

 They are fired with producer gas; but in the future they will be fired with natural gas.

 Production is based on pig iron produced at the plant and scrap metal. The production

 program ranged from plain carbon steel to special alloy steels such as chrome-mickel
 phosphorus (projectiles). The building, about 30 x 40 x 15 meters, is made of burnt

 brick.

CONFIDENTIAL/SECURITY INFORMATION

| CONFIDENTIAL/SECURITY INF | ORMATION |
|---------------------------|----------|
|---------------------------|----------|

50X1

- 3 -

- 19. Most of the special and tool steel production was done in the following electric furnaces: one furnace of five tens capacity and two furnaces of five tens capacity each. The electric steel furnaces produced steel castings, armored cupolas for fortifications, and tanks and links for tank caterpillar treads. Production output is difficult to assay. In the electric steel furnace works there were many small furnaces (400 kilograms) for smelting bronzes and ferrous and nonferrous metals. The building, 28 x 70 x 20 meters, is of structural steel frame with slag brick walls.
- 20. The iron foundries were well equipped. They had two cupolas for melting pig iron. They specialized in thin walled castings for parts of heaters and furvaces for central heating. The molding works made casting molds for the plant's own use.
- 21. The division of materials for molds and fire brick supplied all the needs of the plants. The building was made of burnt brick.
- 22. The forgery was equipped with a 2000 ton stamping press for the production of heavy forgings such as barrels for cannon and rollers for rolling mills. The building, 25 x 25 x 16 meters, was of structural steel frame with slag brick walls.
- 23. The hardening works was equipped to temper heavy goods and had equipment for heat treatment of artillery barrels up to 12 meters long. The building, 22 x 20 x 44 meters, is structural steel frame construction with slag brick walls.
- 24. The foundry repair shop was equipped with heavy machine tools to keep production rolling and for tool repairs. As time went on, however, artillery roughing work was undertaken. The building, 20 x 40 x 15 meters, is structural steel frame with slag brick walls.
- 25. The structural steel division produced steel frames for factory shops and had splendid electric welding equipment. It produced structural steel for almost all the defense industries. It also produced high tension towers.
- 26. The rolling mill produced all kinds of section steels up to No 14 (channels and beams maximum height of 14 centimeters) as well as rails for narrow gauge railroads. The building, 40 x 50 x 12 meters, was made of burnt brick. There was a compressed air station near the plant which supplied compressed air for all the metallurgical and machining plants. (working air pressure -six atmospheres six kilograms per square centimeter)

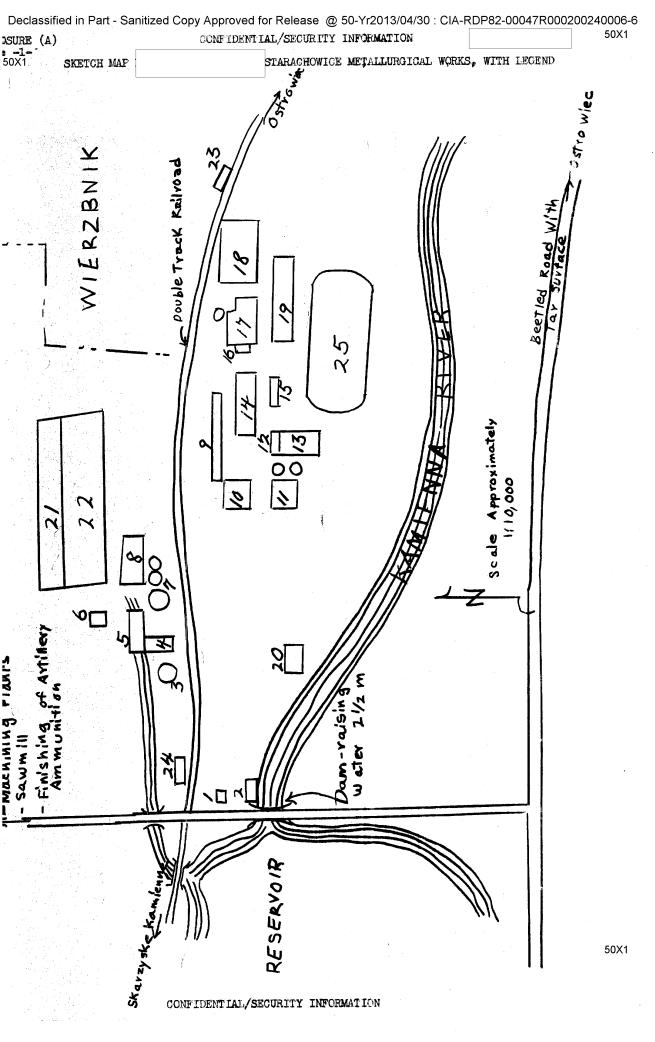
| - | end | - |
|---|-----|---|

| ENCLOSURE | (A): | Sketch | Map |
|---------------------|------|--------|-----|
| Mr. Dallas February | | Lagand | |

50X1

Starachowice Metallurgical Works, With

CONFIDENTIAL/SECURITY INFORMATION



ENCLOSURE (A) Page -2CONFIDENTIAL/SECURITY INFORMATION

50X1

Legend:

- 1... Natural gas distributor station
 2... High speed drinking water filters
 3... Cooling tower
 4... Electric power plant and central for the high voltage power transmission lines
 5... Brick yard and compressed air station
 6... Colombony works
- 6... Colophony works
- 7... Blast furnaces
 7... Blast furnaces
 8... Tapping area
 9... Warehouses for alloy admixtures
 10... Forge
 11... Hardening works
 12... Compressed air station
 13... Repair division

- 14... Electric steel furnaces
- 15... Division of materials for molding 16... Administration building

- 17... Open-hearth furnaces
 18... Rolling mill
 19... Foundry and molding
 20... Sewage purification station

- 21... Warehouses 22... Ores and coal 23... Wierzbnik Railroad Station
- 24... Starachowice Station 25... Scrap metal warehouses